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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/782,751	02/12/2001	Stein A. Lundby	000411	9685
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5775 MOREH	OUSE DR.		CHAN, RICHARD	
SAN DIEGO,	CA 92121	ART UNIT		PAPER NUMBER
			2618	
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		NOTIFICATION DATE	DELIVERY MODE	
			11/02/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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•	Application No.	Applicant(s)
•	09/782,751	LUNDBY, STEIN A.
Office Action Summary	Examiner	Art Unit
	Richard Chan	2618
The MAILING DATE of this communication a	ppears on the cover sheet w	th the correspondence address
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 1.136(a). In no event, however, may a root will apply and will expire SIX (6) MON tute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 15	August 2007.	•
·	nis action is non-final.	
3) Since this application is in condition for allow		ers, prosecution as to the merits is
closed in accordance with the practice under		1
Disposition of Claims	•	•
4)⊠ Claim(s) <u>1-26</u> is/are pending in the application	on.	
4a) Of the above claim(s) is/are withdo		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-26</u> is/are rejected.		
7) Claim(s) is/are objected to.		•
8) Claim(s) are subject to restriction and	/or election requirement.	•
Application Papers		
9) The specification is objected to by the Exami	nor	•
10) The drawing(s) filed on is/are: a) a	•	by the Examiner
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the corre	•	
11) The oath or declaration is objected to by the		• •
Priority under 35 U.S.C. § 119	•	
12) Acknowledgment is made of a claim for foreignal All b Some * c In None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).
1. Certified copies of the priority docume	nts have been received	
2. Certified copies of the priority docume		polication No
3. Copies of the certified copies of the pr	_	
application from the International Bure		' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
* See the attached detailed Office action for a list		received.
	•	
	•	
Attachment(s)	•	
1) Notice of References Cited (PTO-892)		ummary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		s)/Mail Date Informal Patent Application
Paper No(s)/Mail Date <u>5/14/07</u> .	6) Other:	

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 8/15/07have been fully considered but they are not persuasive.

Regarding applicant's arguments regarding the Moon reference not being able to disclose that the base station receives a signal from a mobile station via a reverse link common channel, and transmits to the mobile station a power control command for controlling a transmission power of the reverse link common channel according to the strength of the received signal, the applicant argues that that Moon reference is entirely unlike claim 1 of the present invention, in which the power control unit ina remote station apparatus generates a power control instruction which includes one or more commands configured to adjust a power control instruction which includes one or more commands configured to adjust a transmit power of the common channel at a base station.

The examiner respectfully disagrees with the applicant's arguments. The points the applicant once again to the Moon reference, specifically paragraph [0022]. The Moon reference specifically states "For the power control of the reverse link common channel, the base station receives a signal from a mobile station via the reverse link common channel, and transmits to the mobile station a power control command for controlling a transmission power of the reverse link common channel according to a received signal strength.

Regarding applicant's arguments regarding claim 7, wherein the Chen reference does not disclose adjusting and/or determining a power level for transmission for a

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power control instruction, the examiner discloses the preceding limitations were found in the Knutsson reference.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3, 7 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hashem et al (US 6,330,456) in view of Moon et al (US 2004/0066772).

Regarding claim 1, Hashem teaches a remote station apparatus (col. 3, lines 24-26) comprising: a link quality estimation unit operative to generate a link quality estimate in response to a first power control instruction (col. 3, lines 64-67); and a power control unit coupled to the link quality estimation unit, the power control unit operative to generate a second power control instruction in response to the link quality estimate (col. 4, lines 1-35).

However, Hashem fails to specifically disclose said power control instruction is received on a common channel wherein the second power control instruction is used to adjust the transmit power of the common channel at a base station.

However, in related art, Moon discloses a shared channel structure for use in a forward link power control scheme, in other words, a power control instruction received

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on a common channel wherein the second power control instruction is used to adjust the transmit power of the common channel at a base station (see Moon, abstract & \P 0014 & 0022).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include said power control instruction to be received on a common channel with Hashem's existing power control scheme in order to reduce the space needed.

Regarding claim 2, Hashem teaches the remote station apparatus controls transmission power in response to the first power control instruction (col. 4, lines 28-32).

Regarding claim 3, Hashem teaches the remote station apparatus transmits the second power control instruction (col. 4, lines 42-47).

Regarding claims 7 and 12, Hashem teaches a method for power control in a wireless apparatus operative in a communication system having a forward link and a reverse link (col. 3, lines 64-67), the system transmitting power control bits, on a forward link channel, the method comprising: measuring a SNR of at least one power control bit for controlling a reverse link; and determining a power control decision for the forward link based on the SNR (col. 3, lines 23-30 & col. 4, lines 1-35).

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However, Hashem fails to specifically disclose said power control instruction is received on a common channel wherein the second power control instruction is used to adjust the transmit power of the common channel at a base station.

However, in related art, Moon discloses a shared channel structure for use in a forward link power control scheme, in other words, a power control instruction received on a common channel wherein the second power control instruction includes one or more commands to configure to adjust a transmit power of the common channel at a base station (see Moon, abstract & ¶ 0014 & 0022).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include said power control instruction to be received on a common channel with Hashem's existing power control scheme in order to reduce the space needed.

4. Claims 4-6, 8, 9, 11, 17, 18, 23-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Knutsson et al (WO 99/53630) in view of Chen et al (US 2002/0105929).

Regarding claims 4, 6, 8, 23, and 26 Knutsson teaches a base station apparatus (element MS) comprising: and a determination unit operative to determine a received power control instruction for base station transmission on a channel (pg. 5, lines 25-27); and an adjustment unit coupled to the determination unit, the adjustment unit operative to adjust a transmission power level of the power control instruction (pg. 5, lines 27-29).

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However, Knutsson fails to specifically disclose said power control instruction is received on a common channel.

However, in related art, Chen discloses a shared channel structure for use in a forward link power control scheme, in other words, a power control instruction received on a common channel (see Chen, abstract & ¶ 0106 & 0110).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include said power control instruction to be received on a common channel with Knutsson's existing power control scheme in order to reduce the space needed.

Regarding claims 5, Knutsson teaches a base station apparatus (element BS) comprising: a control processor (inherent) for power control of transmission of power control instructions on a channel, wherein a transmission power level of the power control instruction is initially set to a reference value (pg. 9, lines 5-7); and an amplifier (inherent) operative to adjust a power level of the power control instructions (pg. 9, lines 1-5 & pg. 10, lines 11-15).

However, Knutsson fails to specifically disclose said power control instruction is received on a common channel.

However, in related art, Chen discloses a shared channel structure for use in a forward link power control scheme, in other words, a power control instruction received on a common channel (see Chen, abstract & ¶ 0106 & 0110).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include said power control instruction to be received on a common channel with Knutsson's existing power control scheme in order to reduce the space needed.

Regarding claim 11, 18, and 24 Knutsson teaches a transmission power level of the power control instruction is initially set to a reference value (pg. 9, lines 5-9)

Regarding claims 13, 19, & 25 Knutsson discloses the method for power control in a remote station (element MS) apparatus, the method comprising generating a link quality estimation (pg. 5, lines 25-27); in response to a first response to a first power control instruction received; and generating a second power control instruction in response to the link quality estimate, wherein the second power control instruction includes one more commands configured to adjust a transmit power on the common channel at a base station. (pg. 5, lines 27-29).

However, Knutsson fails to specifically disclose said power control instruction is received on a common channel.

However, in related art, Chen discloses a shared channel structure for use in a forward link power control scheme, in other words, a power control instruction received on a common channel (see Chen, abstract & ¶ 0106 & 0110).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include said power control instruction to be received on

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a common channel with Knutsson's existing power control scheme in order to reduce the space needed.

Regarding claim 14, 20, Knutsson and Chen combined discloses the method of claim 13, further comprising controlling transmission power in response to the first power control instruction. (pg. 5, lines 25-27)

Regarding claim 15, 21 Knutsson and Chen combined discloses the method of claim 13, Knutsson continues to disclose the method further comprising transmitting the second power control instruction. (pg. 5, lines 27-29)

5. Claims 16 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Knutsson et al (WO 99/53630) in view of Chen et al (US 2002/0105929) in further view of Hashem et al (US 6,330,456).

Regarding claim 16, 22, Knutsson and Chen combined disclose the method of claim 13, however neither reference wherein the link quality estimation is a SNR. (col. 3, lines 23-30 & col. 4, lines 1-35).

The Hashem reference however discloses wherein the link quality estimation is a SNR. 2002/0105929

It would have been obvious to one of ordinary skill in the art to implement wherein the link quality estimation is a SNR as disclosed by Hashem with the method of

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pwer control as disclosed by Knutsson and Chen combined in order to calculate the amount of noise distorting the signal to recalculate the amount of power necessary to power the transmitter signal.

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Chan whose telephone number is (571) 272-0570. The examiner can normally be reached on Mon - Fri (9AM - 5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571)272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Richard Chan Art Division 2618 10/22/07

22/07

NAY MAUNG SUPERVISORY PATENT EXAMINER